

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/002864

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H05K5/06 H01L23/10 B60R16/02 G12B9/02 F16B11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05K H01L B60R G12B F16B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| Y          | EP 0 309 920 A (HITACHI LTD)<br>5 April 1989 (1989-04-05)<br>column 3, line 22 - column 5, line 14;<br>figures 1-3                  | 1-9,<br>11-16         |
| Y          | US 4 629 824 A (GILDER JR THOMAS G ET AL)<br>16 December 1986 (1986-12-16)<br>column 3, lines 6-20; figure 5                        | 1-9,<br>11-16         |
| A          | US 5 689 089 A (POLAK ANTHONY J ET AL)<br>18 November 1997 (1997-11-18)<br>column 2, line 48 - column 3, line 36;<br>figures 1A, 1B | 10, 17                |
| A          | FR 2 655 809 A (SIEMENS AUTOMOTIVE SA)<br>14 June 1991 (1991-06-14)<br>the whole document   | 1                     |

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

27 May 2004

Date of mailing of the international search report

04/06/2004

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |   |                       |
|--|---|-----------------------|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages            | Relevant to claim No. |
| A  | US 2002/112870 A1 (KOBAYASHI TOSHIKI ET AL) 22 August 2002 (2002-08-22)<br>the whole document | 1                     |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/002864

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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